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L5	346	dynamics and (contact or collision) and binary near object	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:17
L6	283	dynamics and (contact or collision) and binary near object and link	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:17
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DOI=10...

Rigid Body Dynamics - Chris Hecker's Website

May 14, 2007 ... This article covers 2D angular rigid body mechanics
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Science Links Japan | Molecular Dynamics Simulation of Contact-Line

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Multibody system - Wikipedia, the free encyclopedia

In the case of **contact**, the constraint condition is based on ... E. Bayo, Kinematic and **Dynamic Simulation of Multibody Systems** - The Real-Time ... M. Géradin, A. Cardona, Flexible **multibody** dynamics – A finite element approach, Wiley, ...
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D Ruspini, O Khatib - Advances in robot kinematics, 2000 - books.google.com

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Multibody dynamic simulation of knee contact mechanics

Y Bei, BJ Fregly - Medical engineering & physics, 2004 - Elsevier

Multibody dynamic musculoskeletal models capable of predicting muscle forces and joint **contact** pressures simultaneously would be valuable for studying clinical issues related to knee joint degeneration and restoration. Current three-dimensional **multibody** knee models are ...

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FoleyAutomatic: physically-based sound effects for interactive simulation and animation

K Van Den Doel, PG Kry, DK Pai - ... of the 28th annual conference on ..., 2001 - portal.acm.org

... 3 **Dynamic Simulation** for Sound ... the parameters needed for audio synthesis are often directly available or easily computable from the **simulation**. For example, **multi-body** methods commonly compute constraint forces during periods of continuous **contact** and impulses to re ...

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Multibody system dynamics: Roots and perspectives

W Schiehlen - **Multibody system dynamics**, 1997 - Springer

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BV Mirtich - 1996 - Citeseer

... and correct modeling of these contacts is critical to accurate physical **simulation**. **Contact** modeling is also where all of the difficult problems are. The models for **contact** are less accurate and more equivocal than those for the **dynamics** of isolated bodies. Much of the ...

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H Noguchi, M Takasu - The Journal of Chemical Physics, 2001 - link.aip.org

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HC Lee, JH Choi, AA Shabana - Vehicle System Dynamics, 1998 - informaworld.com

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A detailed multi-body model for dynamic simulation of off-road tracked vehicles

D Rubinstein, R Hiron - Journal of Terramechanics, 2004 - Elsevier

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Experimental validation of contact dynamics simulation of constrained robotic tasks

J Van Vliet, I Sharf, O Ma - The International Journal of Robotics ..., 2000 - ijr.sagepub.com

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A constraint-stabilized time-stepping approach for rigid multibody dynamics with joints, contact and friction

M Anitescu, GD Hart - International Journal for Numerical ..., 2004 - interscience.wiley.com

... of rigid **multibody dynamics** with **contact** and friction simulations [3, 9, 16, 17]. Such approaches solve a subproblem of a complexity comparable to the one that is solved here, based on an initial approximation of the active set, and then attempt to advance the **simulation** by one ...

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